Textbook Alignment to the Utah Core – Discrete Mathematics

This alignment has been completed using an "Independent Alignment Vendor" from the USOE approved list (www.schools.utah.gov/curr/imc/indvendor.html.) **Yes** _____ **No** _X___

Name of Company and Individual Conducting Alignment:
Dr. Don Collins, Independent Contractor

A "Credential Sheet" has been completed on the above company/evaluator and is (Please check one of the following):

☐ **On record with the USOE.**

X The "Credential Sheet" is attached to this alignment.

Instructional Materials Evaluation Criteria (name and grade of the core document used to align): Statistics and Probability, Grades 11-12

Title: Elementary Statistics, 10th Edition (c) 2007, (Triola)   ISBN#: 0-13-195998-0 (SE); 0-321-331826 (AIE);

Publisher: Pearson

Overall percentage of coverage in the *Student Edition (SE) and Teacher Edition (TE)* of the Utah State Core Curriculum: 100 %

Overall percentage of coverage in *ancillary material*s of the Utah Core Curriculum: _____ %

Percentage of coverage in the *student and teacher edition* for Standard I: 100 %	**Percentage of coverage not in student or teacher edition, but covered in the *ancillary material* for Standard I: _____ %**

OBJECTIVES & INDICATORS	Coverage in *Student Edition(SE) and Teacher Edition (TE)* (pg #'s, etc.)	Coverage in *Ancillary Material* (titles, pg #'s, etc.)	*Not covered in TE, SE or ancillaries* ✔
Formulate Questions			
• Formulate questions to determine how data can be collected and analyzed to answer their questions.	**4-7, 9, 42-47, 76-81, 83-85**		
Collect Data			
• Understand the importance of randomization in sampling and experimental design.	**4, 21-24, 26-30**		
• Distinguish between populations and samples.	**4, 12-13, 26-28, 30-31, 328-330**		
• Use simulation and probability to model possible outcomes of events.	**143-144, 174-177, 450, 646**		
• Use good practice to design and conduct: o Sample surveys. o Experiments. o Observational studies.	**4-7, 9, 12-13, 16-17, 21-24, 26-30, 488-489, 646**		
Analyze Data			
• Identify statistically appropriate ways to display and summarize data using measures of central tendency and variation.	**42-43, 76-80, 56-60, 83-86, 92-95, 98-101, 110-114, 121-124, 201-205**		
• Understand percentile.	**14-15, 111-115, 121-126**		
• Graph probability distributions, including the normal distribution.	**13-15, 44-47, 51-54, 56-60, 63-66, 247-251, 254-257, 259-264**		
• Interpret data based on the normal distribution.	**250-252, 254-257, 259-264, 281-286**		
• Choose appropriate techniques to explore univariate and bivariate data.	**51-54, 56-60, 120-123, 201-205, 354-358, 517-520, 522-525, 527-530**		

	• Explore the possible relationships between explanatory and response variables.	**517-521, 541-546, 557-561**		
Interpret Results				
	• Understand that conclusions based on unbiased samples can provide valuable information about a population.	**21-26, 51-54, 56-61, 120-125, 201-205, 249-254, 338-342, 517-521**		
	• Recognize reasonably likely outcomes vs. outcomes that are unlikely, and then form an appropriate conclusion.	**100-101, 119-121, 123-127, 207-209, 547-549, 557-562, 592-596, 608-611**		
	• Interpret the margin of error associated with an estimate of a population characteristic.	**325-328, 339-342, 352-353, 357, 458**		